

-14-

We claim:

1. A pusher assembly for use in a contact block assembly, said pusher assembly comprising:

a body portion;

a first window formed in said body portion;

a second window formed in said body portion adjacent to said first window, said second window being longer than said first window; and

a movable contact positioned within said second window.

2. The pusher assembly of claim 1 wherein said first window and said second window are formed in a first portion of said body portion.

3. The pusher assembly of claim 2 further comprising a recess formed in said first portion of said body portion.

4. The pusher assembly of claim 3 wherein said a recess formed in said first portion of said body portion further extends to a second portion of said body portion.

-15-

A2
cont

2

5. The pusher assembly of claim 3 further comprising a spring positioned within said recess.

2

6. The pusher assembly of claim 5 further comprising shoulders between said first window and said second window.

7. The pusher assembly of claim 6 wherein said spring movably retains said movable contact within said second window.

8. The pusher assembly of claim 7 wherein said spring movably retains said movable contact against said shoulders of said second window.

2

9. A pusher assembly for use in a contact block assembly, said pusher assembly comprising:

a body portion extending from a first end to a second end;

4

a first window extending through sidewalls in said body portion for receiving a movable contact in a first position;

-16-

6 a second window extending through sidewalls in said body portion, said second
window being larger than said first window to retain said movable contact when moved
8 to a second position;

a recess formed through said first end of said body portion, said first window and
10 said second window for receiving a spring; and

a movable contact positioned within said second window.

10. The pusher assembly of claim 9 wherein said first window and said second
window are formed in a first portion of said body portion.

11. The pusher assembly of claim 10 wherein said recess further extends to a second
portion of said body portion.

12. The pusher assembly of claim 11 further comprising shoulders between said first
2 window and said second window.

-17-

13. The pusher assembly of claim 12 wherein said spring movably retains said
movable contact against said shoulders when said movable contact is positioned in said
second window.

14. The pusher assembly of claim 9 wherein said movable contact can be inserted
in a desired orientation, said desired orientation being detectable.

15. A pusher assembly for use in a contact block assembly, said pusher assembly
comprising:

a body portion extending from a first end to a second end and having a first
portion and a second portion;

a first window formed through sidewalls in said first portion of said body
portion;

a second window formed through sidewalls in said first portion of said body
portion, said second window being larger than said first window and being formed
adjacent to said first window to form shoulder portions between said first window and
said second window;

-18-

a recess formed through said first end of said body portion, said first window and
12 said second window and said second portion of said body portion;

a spring positioned within said recess; and

14 a movable contact positioned within said second window and movably retained
against said shoulders by said spring.

16. The pusher assembly of claim 15 wherein said movable contact can be inserted
in a correct orientation and an incorrect orientation, said incorrect orientation being
detectable in a test.

17. A pusher assembly comprising:

a body portion means;

a recess means formed in said body portion means for receiving a spring;

4 a first window means formed in said body portion means for receiving a movable
contact;

6 a second window means formed in said body portion means for retaining said
movable contact.

SUB
A3
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

18. A method for assembling a pusher assembly, said method comprising the steps of :
- inserting a movable contact into a first position in a first window of a pusher;
- moving said movable contact to a second window of said pusher; and
- rotating said movable contact to a second position within said second window.
19. The method of claim 18 wherein said step of inserting said movable contact comprises inserting said movable contact in a substantially vertical position through said first window of said pusher assembly.
20. The method of claim 18 wherein said step of rotating said movable contact comprises rotating said movable contact to a substantially horizontal position.
21. The method of claim 18 further comprising a step inserting a contact spring through a recess in said body portion.
22. The method of claim 21 further comprising a step of retaining said movable contact against a shoulder of said second window.

-20-

23. The method of claim 18 further comprising a step of inserting said pusher
2 assembly into a contact block.

24. The method of claim 22 further comprising a step of determining if said movable
2 contact is incorrectly inserted in said pusher assembly.

25. A method for assembling a pusher assembly, said method comprising the steps
of :

positioning a movable contact in a first orientation;

4 inserting said movable contact into a first window of a pusher in said first
orientation;

6 moving said movable contact into a second window of said pusher by depressing
a spring; and

8 rotating said movable contact to a second orientation within said second window.

26. The method of claim 25 further comprising a step of retaining said movable
2 contact against a shoulder of said second window.

-21-

27. The method of claim 26 wherein said step of retaining said movable contact
against a shoulder of said second window comprises retaining said movable contact with
said spring.

28. The method of claim 25 wherein said step of inserting said movable contact
comprises inserting said movable contact in a substantially vertical position through a
first window of said pusher assembly.

29. The method of claim 28 wherein said step of rotating said movable contact
comprises rotating said movable contact to a substantially horizontal position within
said second window.

30. A method for assembling a pusher assembly, said method comprising the steps
of :

inserting a movable contact into in a first window of a pusher in a substantially
vertical orientation;

moving said movable contact to a second window of said pusher by depressing
a spring;

-22-

rotating said movable contact to a substantially horizontal orientation within said
8 second window;

releasing said movable contact to a static position within said second window;

10 and

retaining said movable contact within said second window with said spring.

31. The method of claim 30 further comprising a step of inserting said pusher
assembly into a contact block.

32. The method of claim 31 further comprising a step of determining if said movable
contact is incorrectly inserted in said pusher assembly.